

**TRANSPARENTLY PROVIDING LAYER TWO (L2) SERVICES ACROSS  
INTERMEDIATE COMPUTER NETWORKS**

**ABSTRACT**

A device provides layer two (L2) services between customer networks that are coupled by one or more intermediate computer networks. The device comprises a routing process that receives label information for a label switched path (LSP) through the intermediate networks. The device further comprises a L2 service that receives L2 service information from a device associated with second customer network. In accordance with the label information, the device transports L2 communications between the first and second customer networks through the one or more intermediate networks. By utilizing label information in this manner, the device may minimize the impact of providing L2 services through the intermediate networks.